

IN THE CLAIMS:

Please amend the claims to have the status and content indicated in the following listing of claims, wherein any cancellation of claims is made *without prejudice*.

1-7 (canceled).

8. (original) A control system, said control system comprising:
a plurality of environmental conditions sensors;
a central processing unit;
a first computer storage medium portion with a weather protection algorithm recorded on said computer storage medium;
a second computer storage medium portion with user desired internal building environmental conditions recorded thereon;
a third computer storage medium portion with weather prediction information stored thereon;
a fourth computer storage medium portion with a system model of the building and its heating and cooling characteristic stored thereon;

switches coupled to said central processing unit for controlling heating and/or cooling and/or humidifier /dehumidifier systems; and
a plurality of drivers for driving rollouts on said windows.

9. (original) A control system as in claim 8 wherein said sensors comprise an outside temperature sensor and an inside temperature sensor.

10. (original) A control system as in claim 9, wherein said sensors further comprise an outside windspeed sensor.

11. (original) A control system as in claim 10, wherein said sensors further comprise outside humidity sensor, and inside humidity sensor, a shade light sensor, a sunlight sensor, and a pressure sensor.

12. (original) A method for controlling and environmental system in the building, comprising the steps of:

reading current conditions within a building and outside a building;

predicting future outside environmental conditions;

determining whether current conditions within a building are helpful to

accommodating future changes in the outside environment of the building; in the event

that such conditions are deemed helpful processing system capacities and deciding

upon a system actually should time and actuating appropriate mechanical systems in

response to such determination;

implementing a timeout interval before actuation of the system or actuating the system

in response to a period change within certain user set input conditions;

in the event that conditions are found helpful, determining whether the deviation

caused by using said conditions is helpful and in the event that it is not helpful

advancing said timeout interval;

in the event that conditions are not found helpful calculating utilization potential,

deciding upon system actually should time and actuating mechanical systems after

which the system is advanced to said timeout interval.

13. (new) A building comprising:

a plurality of windows for gating light for the purpose of controlling temperature

within the building, each window comprising:

a light transmissive substrate; a plurality of at least partially reflective rollout members disposed on said substrate;

an electrically conductive at least partially light transmissive conductive member disposed in facing relationship with said reflective rollout members and said substrate;

a source of electrical potential for causing said rollout members to roll out, conductors for coupling said source of electrical potential to said rollout members and to said at least partially light transmissive conductive member;

said at least partially light transmissive conductive member being electrically insulated from said rollouts; and

a control system, said control system comprising:

a plurality of environmental condition sensors;

a central processing unit;

a first computer storage medium portion with a weather protection algorithm recorded on said computer storage medium;

a second computer storage medium portion with user desired internal building environmental conditions recorded thereon;

a third computer storage medium portion with weather prediction information stored thereon;

a fourth computer storage medium portion with a system model of the building and its heating and cooling characteristics stored thereon;

switches coupled to said central processing unit for controlling heating and/or cooling and/or humidifier / dehumidifier systems; and

a plurality of drivers for driving the rollouts on said windows.